

FIG. 1A

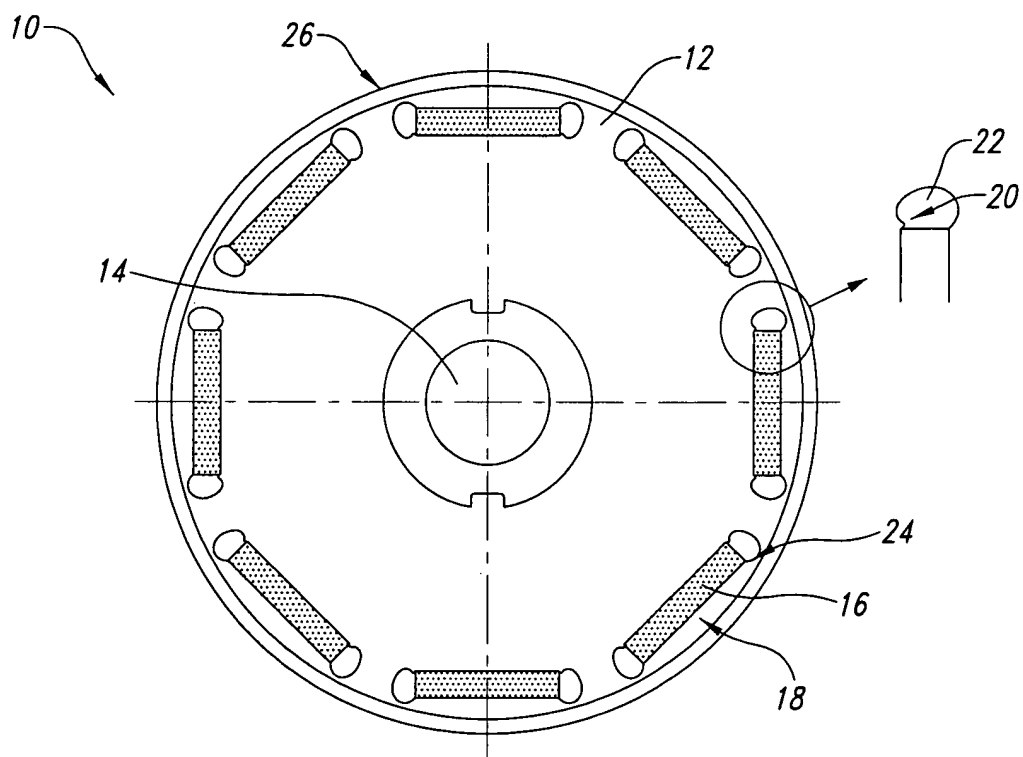


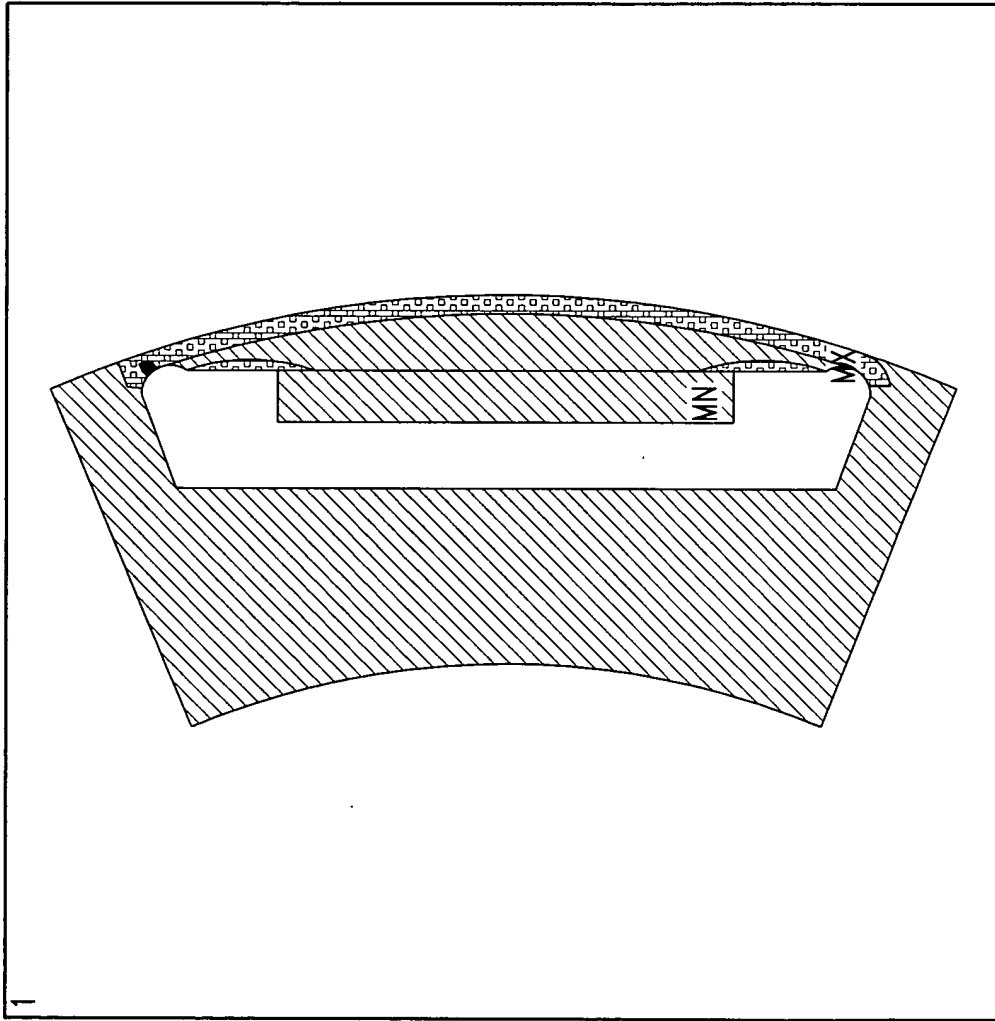
FIG. 1B



With no filler

ANSYS Graphics PLNSOL,S,EQV,0,1

ANSYS 5.6.1
 FEB 15 2001
 15:47:19
 NODAL SOLUTION
 STEP=1
 SUB=1
 TIME=1
 SEQV (AVG)
 PowerGraphics
 EFACET=1
 AVRES=Mat
 DMX=.564E-03
 SMN=.115E+08
 SMX=.504E+10
 .115E+08
 .570E+09
 .113E+10
 .169E+10
 .224E+10
 .280E+10
 .336E+10
 .392E+10
 .448E+10
 .504E+10



At speed 15000 rpm—maximum stress in iron 5000 MPa

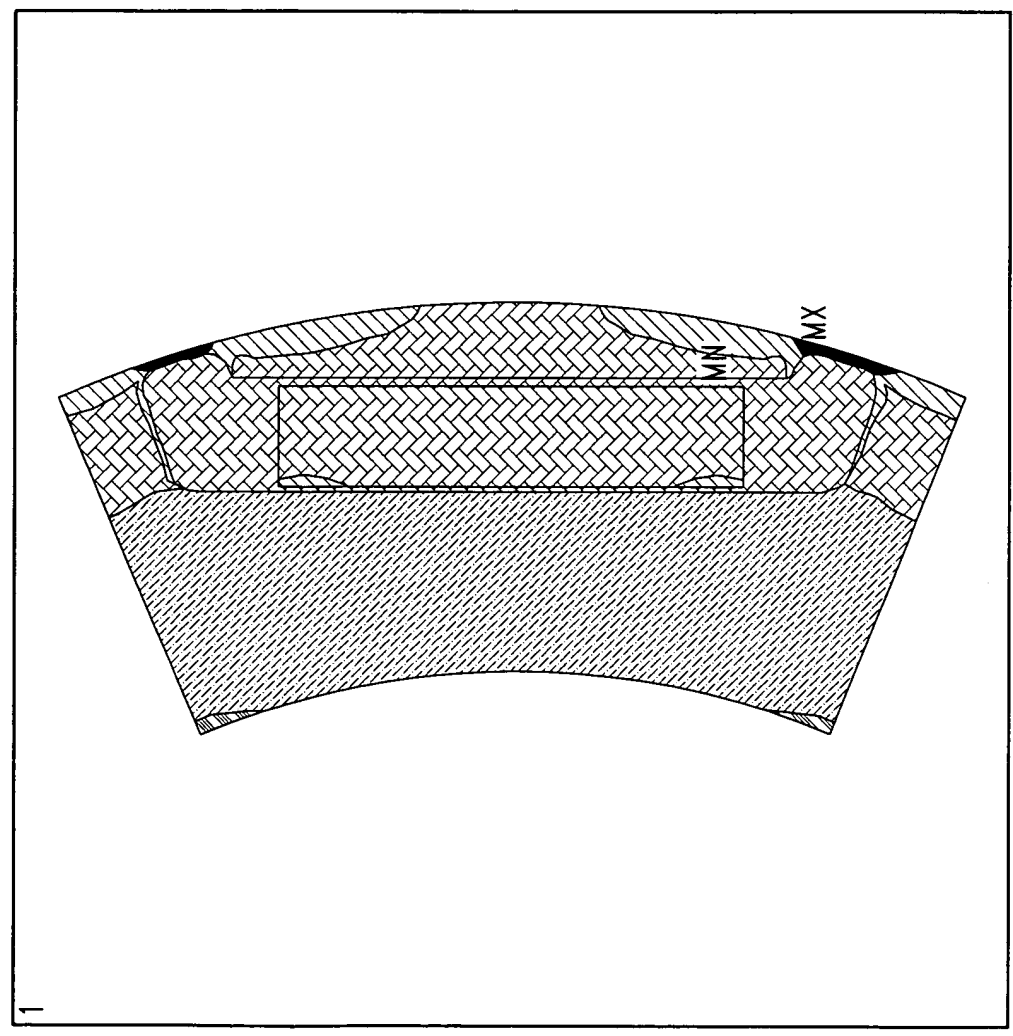
FIG. 5



With epoxy resin filler

ANSYS Graphics PLNSOL,S,EQV,0,1

ANSYS 5.6.1
FEB 15, 2001
13:08:59
NODAL SOLUTION
STEP=1
SUB=1
TIME=1
SEQV (AVG)
PowerGraphics
EFACET=1
AVRES=Mat
DMX=.325E-04
SMN=311452
SMX=.286E+09
311452
.321E+08
.639E+08
.956E+08
.127E+09
.159E+09
.191E+09
.223E+09
.255E+09
.286E+09



At speed 15000 rpm—maximum stress in iron 286 MPa

FIG. 6